

IN THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application.

1. (currently amended) In a dishwasher having a dishwashing compartment and a pump fluidically connected to the dishwashing compartment for channeling liquid to the dishwashing compartment, the pump disposed outside the dishwashing compartment, and including a pump housing compartment, and including a pump housing defining an interior and housing a motor and an impeller, the pump housing defining an inflow conduit through which dishwashing liquid flows out of the dishwashing compartment and into the pump housing into contact with the impeller, a heater for heating dishwashing liquid, the heater comprising:

a heating device disposed outside the dishwashing compartment on the pump housing in heat-conducting contact with the interior of the pump housing, the heating device being operable to provide heat, via its heat-conducting contact with the interior of the pump housing, to the dishwashing liquid flowing through the pump housing such that a substantial portion of the heat that is acquired by the dishwashing liquid is imparted thereto by the heating device.

2. (original) The heater according to claim 1, wherein:

the pump housing has an outside; and

said heating device is disposed on the outside of the pump housing.

3. (original) The heater according to claim 1, wherein

the pump housing has an outside with a side facing the motor; and

said heating device is disposed on the outside of the pump housing on the side facing the motor.

4. (withdrawn) The heater according to claim 1, wherein:

the pump housing has an outside with a side facing away from the motor; and

said heating device is disposed on the outside of the pump housing on the side facing away from the motor.

5. (original) The heater according to claim 1, wherein said heating device is an electrical resistance heater.
6. (original) The heater according to claim 5, wherein said heating device is a tubular heater.
7. (withdrawn) The heater according to claim 5, wherein said heating device is a thick-film heater.
8. (original) The heater according to claim 1, wherein:
- the pump housing has a part bearing said heating device; and
- the part of the pump housing bearing said heating device is made of stainless high-grade steel.
9. (original) The heater according to claim 1, wherein:
- the pump housing has a part bearing said heating device; and

the part of the pump housing bearing said heating device has an enameled surface.

10. (original) The heater according to claim 1, wherein said heating device has a temperature switch disposed at the pump housing.
11. (original) The heater according to claim 10, wherein said temperature switch is a pressure switch.
12. (original) The heater according to claim 10, wherein said temperature switch is a thermostatic switch.
13. (original) The heater according to claim 12, wherein said thermostatic switch is disposed on the pump housing.
14. (original) The heater according to claim 1, including an insulating layer covering said heating device.
15. (original) The heater according to claim 14, including a protective plate covering said insulating layer.
16. (previously presented) A dishwasher, comprising:

a housing defining a dishwashing compartment;

a pump for channeling liquid to said dishwashing compartment, said pump:

fluidically connected to said dishwashing compartment;

disposed outside said dishwashing compartment and inside said housing;

and

having a motor, an impeller, and a pump housing defining an interior and housing said motor and said impeller; and

a heating device for heating dishwashing liquid, said heating device disposed on said pump housing in heat-conducting contact with said interior of said pump housing.

17. (previously presented) A dishwasher, comprising:

a housing defining a dishwashing compartment;

a pump for channeling liquid to said dishwashing compartment, said pump:

fluidically connected to said dishwashing compartment;

disposed outside said dishwashing compartment and inside said housing;
and

having a motor, an impeller, and a pump housing defining an interior and housing said motor and said impeller, said pump housing defining an inflow conduit through which said dishwashing liquid flows into said pump housing into contact with said impeller and said motor rotating a shaft connected to said impeller so as to rotate said impeller, said pump housing having an outside with a side facing the motor and a side facing away from the motor; said shaft of said motor extends outwardly from said pump housing on the side of said pump housing facing the motor, and said inflow conduit extends outwardly from said pump housing on the side facing away from the motor;
and

a means for heating dishwashing liquid, said heating means disposed on said pump housing in heat-conducting contact with said interior of said pump housing.

18. (withdrawn) The heater according to claim 17, wherein said heating device is disposed on the outside of said pump housing on the side facing said motor.
19. (withdrawn) The heater according to claim 17, wherein said heating device is disposed on the outside of said pump housing on the side facing away from said motor.